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NOTICE OF ALLOWANCE AND FEE(S) DUE

74701 7590 10/26/2010

ALLEN, DYER, DOPPELT, MILBRATH & GILCHRIST
255 S ORANGE AVENUE
SUITE 1401
ORLANDO, FL 32801

EXAMINER

OKEKE, IZUNNA

ART UNIT

PAPER NUMBER

2432

DATE MAILED: 10/26/2010

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
|-----------------|-------------|----------------------|---------------------|------------------|

10/806,949

03/23/2004

Eric Edmond Petkus

GCSD-1571 (51393)

2846

TITLE OF INVENTION: MODULAR CRYPTOGRAPHIC DEVICE AND RELATED METHODS

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 01/26/2011 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
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P.O. Box 1450
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

74701 7590 10/26/2010

ALLEN, DYER, DOPPELT, MILBRATH & GILCHRIST
255 S ORANGE AVENUE
SUITE 1401
ORLANDO, FL 32801

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

| |
|--------------------|
| (Depositor's name) |
| (Signature) |
| (Date) |

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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10/806,949 03/23/2004 Eric Edmond Petkus GCSD-1571 (51393) 2846

TITLE OF INVENTION: MODULAR CRYPTOGRAPHIC DEVICE AND RELATED METHODS

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|-------------|--------------|---------------|---------------------|----------------------|------------------|----------|
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nonprovisional NO \$1510 \$300 \$0 \$1810 01/26/2011

| EXAMINER | ART UNIT | CLASS-SUBCLASS |
|----------|----------|----------------|
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OKEKE, IZUNNA 2432 713-153000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
- 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s); (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/806,949 | 03/23/2004 | Eric Edmond Petkus | GCSD-1571 (51393) | 2846 |
| 74701 | 7590 | 10/26/2010 | EXAMINER | |
| ALLEN, DYER, DOPPELT, MILBRATH & GILCHRIST 255 S ORANGE AVENUE SUITE 1401 ORLANDO, FL 32801 | | | OKEKE, IZUNNA | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 2432 | |
| DATE MAILED: 10/26/2010 | | | | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1427 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1427 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

| | | | |
|-------------------------------|------------------------|---------------------|--|
| Notice of Allowability | Application No. | Applicant(s) | |
| | 10/806,949 | PETKUS ET AL. | |
| | Examiner | Art Unit | |
| | IZUNNA OKEKE | 2432 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 07/28/2010.
2. ☒ The allowed claim(s) is/are 1,3-6,8-16,19-23,25-27,29,30 and 32-35.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date _____. 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____. |
|---|---|

/IZUNNA OKEKE/
Examiner, Art Unit 2432

/Jung Kim/
Primary Examiner, Au 2432

DETAILED ACTION

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Applicant's Representative, David Carus, on 10/13/2010.

The application has been amended as follows: Claims 1, 13, 23 and 27 are amended as follows.

1. (Currently Amended) A cryptographic device comprising:
a cryptographic module and a communications module removably coupled thereto;
said cryptographic module comprising
a first housing,
a wired Ethernet user Local Area Network (LAN) interface carried by said first housing,
a cryptographic processor carried by said first housing and coupled to said wired Ethernet user LAN interface,
a power circuit carried by said first housing and powering said cryptographic processor and said wired Ethernet user LAN interface, and
a first connector carried by said first housing and coupled to said cryptographic processor;
said communications module comprising
a second housing,
a second connector carried by said second housing and being removably mateable with said first connector of said cryptographic module, and

a network communications interface carried by said second housing and coupled to said second connector;

said communications module comprising one from among a plurality of interchangeable communications modules each for communicating over a different communications media;

said communications module also being powered by said power circuit.

13. (Currently Amended) A cryptographic device comprising:

a cryptographic module and a communications module removably coupled thereto;

said cryptographic module comprising

a first housing,

a wired Ethernet user Local Area Network (LAN) interface carried by said first housing,

a cryptographic processor carried by said first housing and coupled to said user LAN interface,

a power circuit carried by said first housing and powering said cryptographic processor and said wired Ethernet user LAN interface,

a tamper circuit for disabling said cryptographic processor based upon tampering with said first housing, and

a first connector carried by said first housing and coupled to said cryptographic processor;

said communications module comprising

a second housing,

a second connector carried by said second housing and being removably mateable with said first connector of said cryptographic module, and

a network LAN interface carried by said second housing and coupled to said second connector;

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said communications module comprising a ~~predetermined~~ one from among a plurality of interchangeable communications modules each for communicating over a different communications media;
said communications module also being powered by said power circuit.

23. (Currently Amended) A communications method comprising:

coupling a cryptographic module to a network device, the cryptographic module comprising a first housing, a wired Ethernet user LAN interface carried by the first housing, a cryptographic processor carried by the first housing and coupled to the wired Ethernet user LAN interface, a first connector carried by the first housing and coupled to the cryptographic processor, and a power circuit carried by the first housing;

providing a communications module from among a plurality of interchangeable communications modules each for communicating over a different communications media and comprising a second housing, a second connector carried by the second housing, and a network communications interface carried by the second housing coupled to the second connector, the second connector of the communications module being removably mated with the first connector of the cryptographic module;

using the power circuit to power the cryptographic processor, the wired Ethernet user LAN interface, and the communications module; and
using the network communications interface to communicate with a network.

27. (Currently Amended) A communications system comprising:

a plurality of network devices coupled together to define a network, and a cryptographic device coupled to at least one of said network devices;

said cryptographic device comprising a cryptographic module coupled to said at least one network device, and a communications module removably coupled to said cryptographic module;

said cryptographic module comprising
a first housing,

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a wired Ethernet user LAN interface carried by said first housing,
a cryptographic processor carried by said first housing and coupled to said
wired Ethernet user LAN interface,
a power circuit carried by the first housing and powering the
cryptographic processor and the wired Ethernet user LAN interface, and
a first connector carried by said first housing and coupled to said
cryptographic processor;
said communications module comprising
a second housing,
a second connector carried by said second housing and being removably
mateable with said first connector of said cryptographic module, and
a network communications interface carried by said second housing and
coupled to said second connector;
said communications module comprises a predetermined one from among a
plurality of interchangeable communications modules each for communicating over a
different communications media;
said communications module also being powered by said power circuit.

Allowable Subject Matter

1. Claims 1, 3-6, 8-16, 19-23, 25-27, 29-30 and 32-35 are allowed.

Examiner's Statement of Reasons for Allowance

2. The following is an examiner's statement of reasons for allowance:

With reference to independent claims 1, 13, 23 and 27, Claim 1 recites a cryptographic device comprising a cryptographic module and a communications module removably coupled together wherein the cryptographic module comprises a first housing which comprises a wired Ethernet Interface carried by the first housing, a cryptographic processor carried by the first housing and coupled the wired Ethernet Interface, a power circuit carried by the first housing

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which powers the cryptographic processor and the Ethernet Interface and a first connector carried by the first housing and coupled to the cryptographic processor. A second housing which comprises a second connector carried by the second housing and being removable mateable with the first connector of the cryptographic module and a network communication interface carried by the second housing. The communication module also comprises one from among a plurality of interchangeable communication modules for communicating over a different communication media and also powered by the power circuit.

Dumont (EP 0891112) teaches a communication device with a removable cryptographic module for securing communications. Dumont teaches this communication device as a portable telephone with an attachable encryption/decryption unit. However, the present invention does not teach the device as a portable telephone but rather as a cryptographic device having a cryptographic module comprising a first housing and a communication module comprising a second housing. Dumont also fails to anticipate the power circuit of the instant claim which is carried by the first housing and used to power the cryptographic and communications module. Dumont also fails to anticipate the communication module comprising a plurality of interchangeable communication modules for communicating over different communication media as recited in claim 1. **Dhir, Jones and Dellmo** do not remedy the deficiencies of Dumont and the combination of **Dumont, Dhir, Jones and Dellmo** in one way or the other fail to anticipate the invention as recited in claim 1 especially the power circuit carried by the first housing of the cryptographic device (used for powering the cryptographic and communication modules) and the communication module comprising a plurality of interchangeable communication modules for communicating over different communications media.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to IZUNNA OKEKE whose telephone number is (571)270-3854. The examiner can normally be reached on 9:00am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on (571) 272-3799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/IZUNNA OKEKE/
Examiner, Art Unit 2432

Application/Control Number: 10/806,949

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/Jung Kim/

Primary Examiner, AU 2432